

AMENDMENT TO THE DRAWINGS

The attached sheet(s) of drawings includes changes to Figs. 3, 4, 16, 17, 42, 43, 62, 76, 80. Annotated sheets showing the changes made by this amendment are also attached.

Attachment: Replacement Sheet(s), nine pages
Annotated Sheet(s) Showing Changes, nine pages

REMARKS

If clarification of the amendment or application is desired, or if issues are present which the Examiner believes may be quickly resolved, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 18-0160, our Order No. SAT-16306.

Respectfully submitted,

RANKIN, HILL, PORTER & CLARK LLP

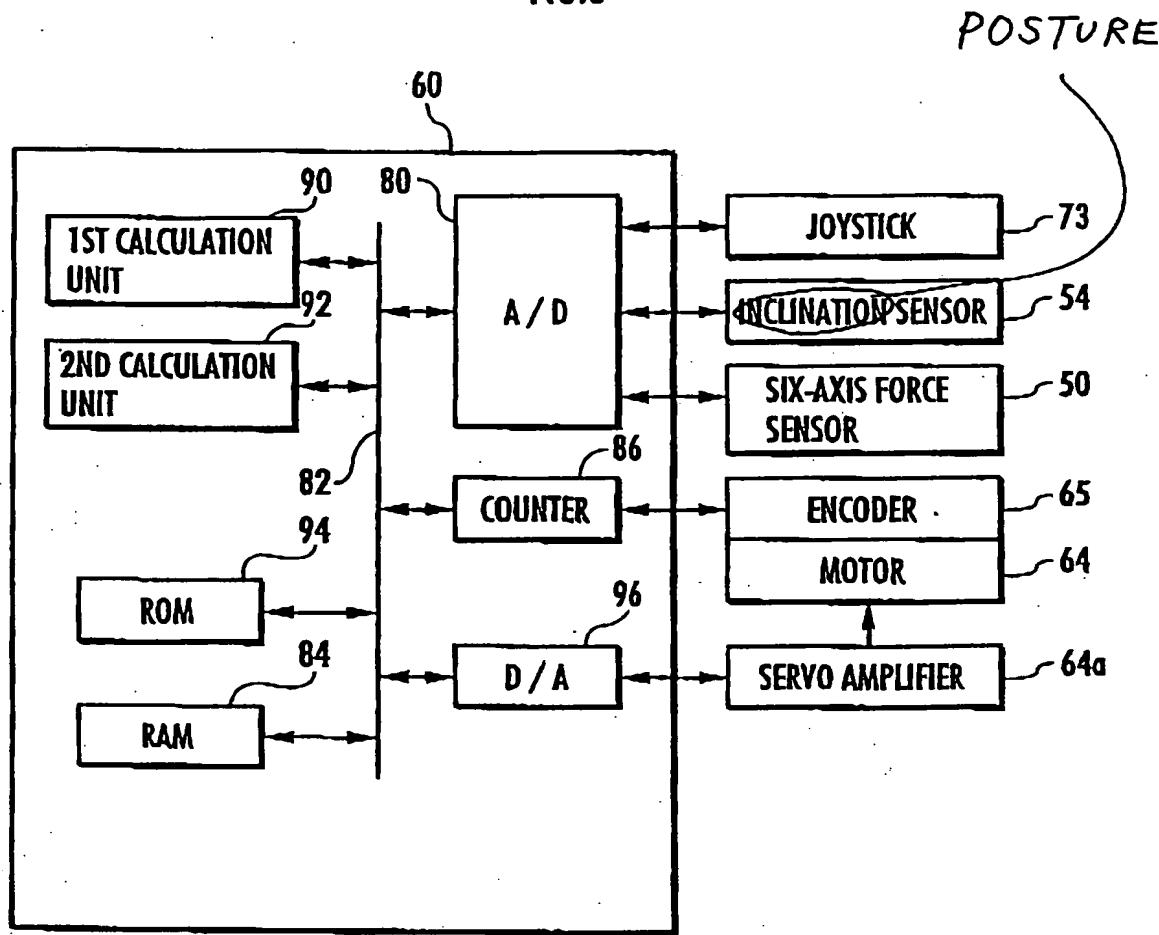
By 

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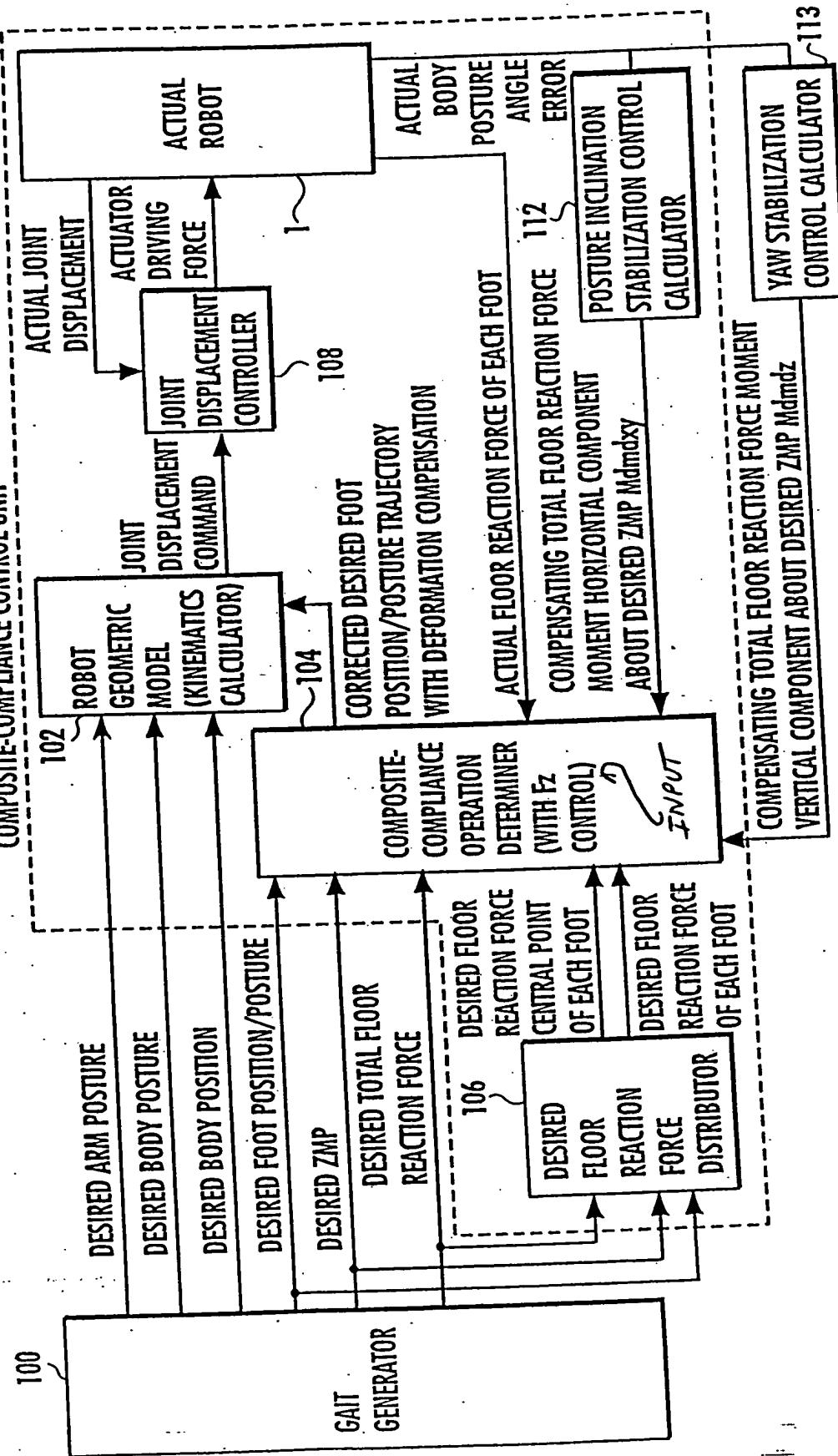
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FIG.3



POSTURE

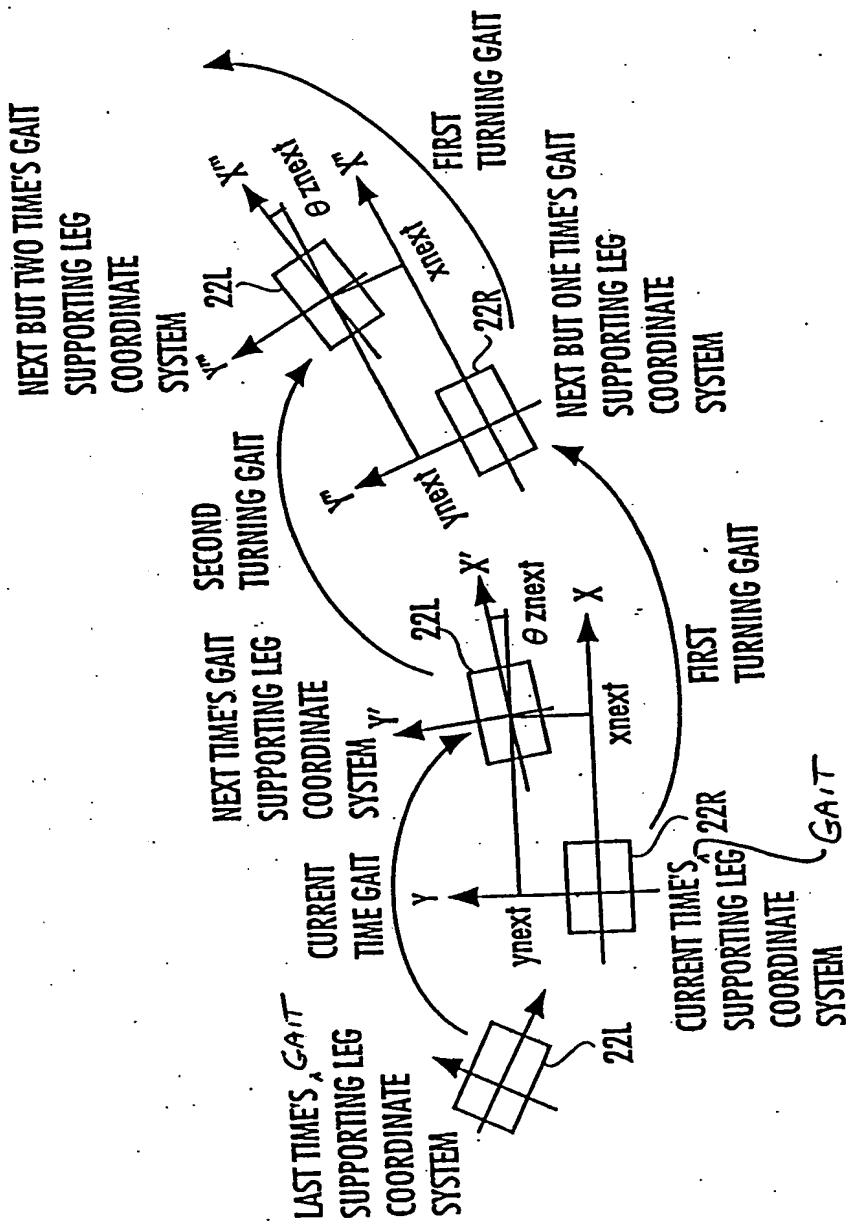
FIG. 4
COMPOSITE COMPLIANCE CONTROL UNIT



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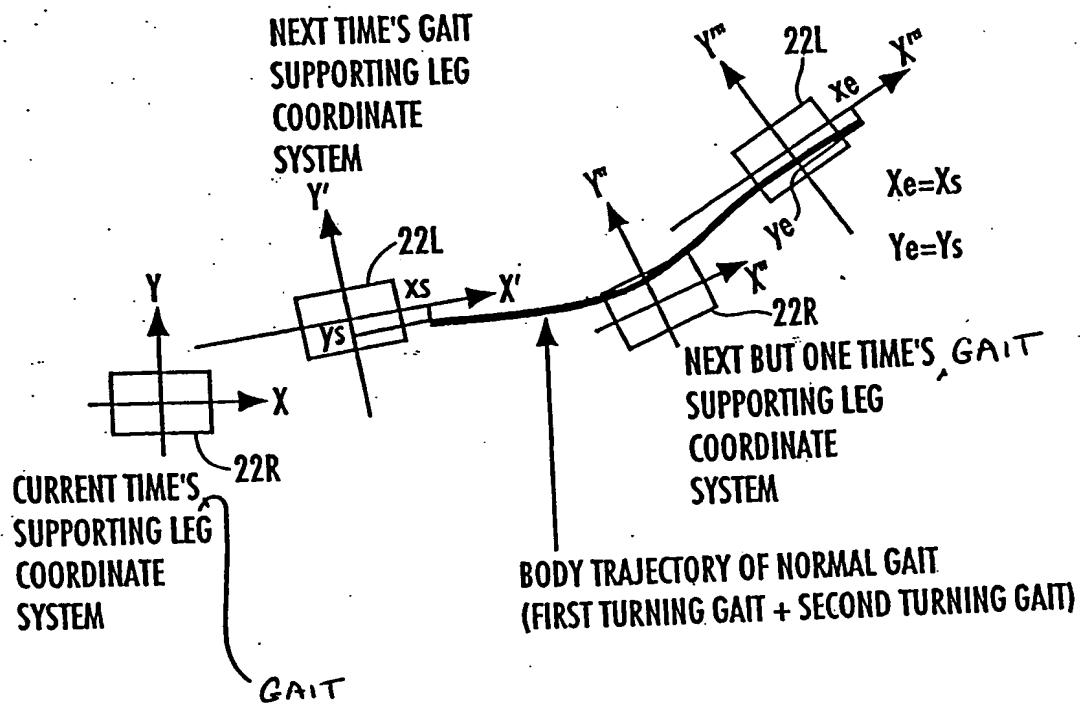
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FIG.16



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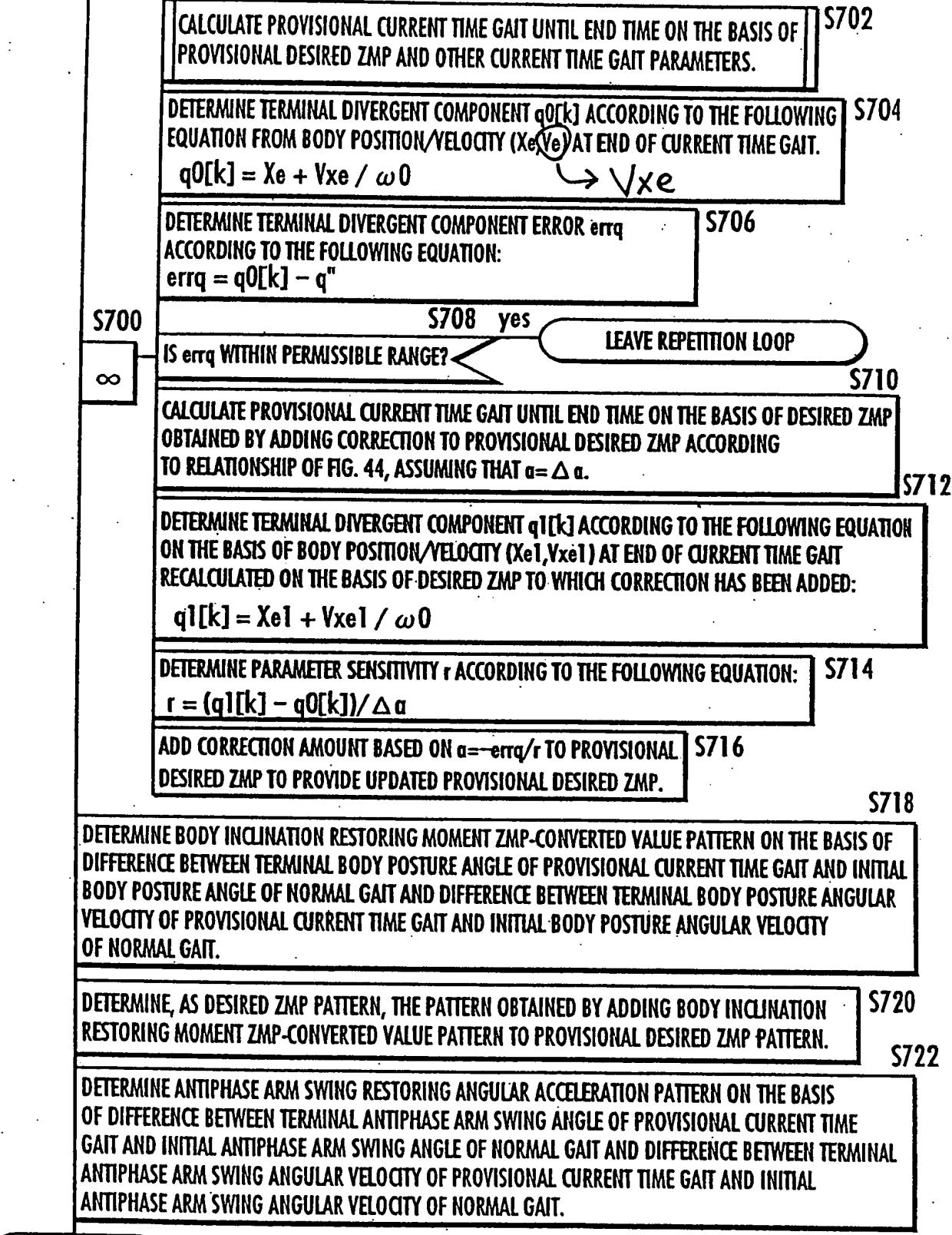
FIG.17



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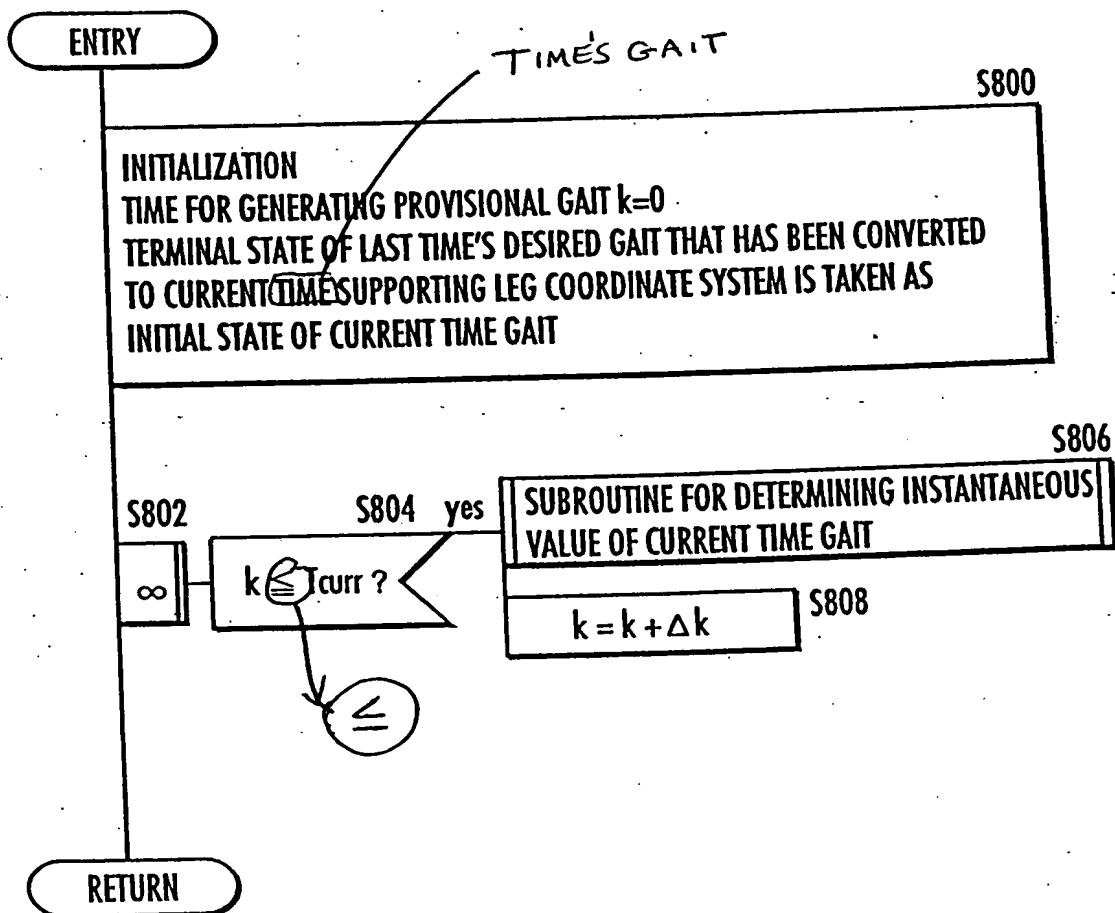
ENTRY

FIG.42



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FIG.43



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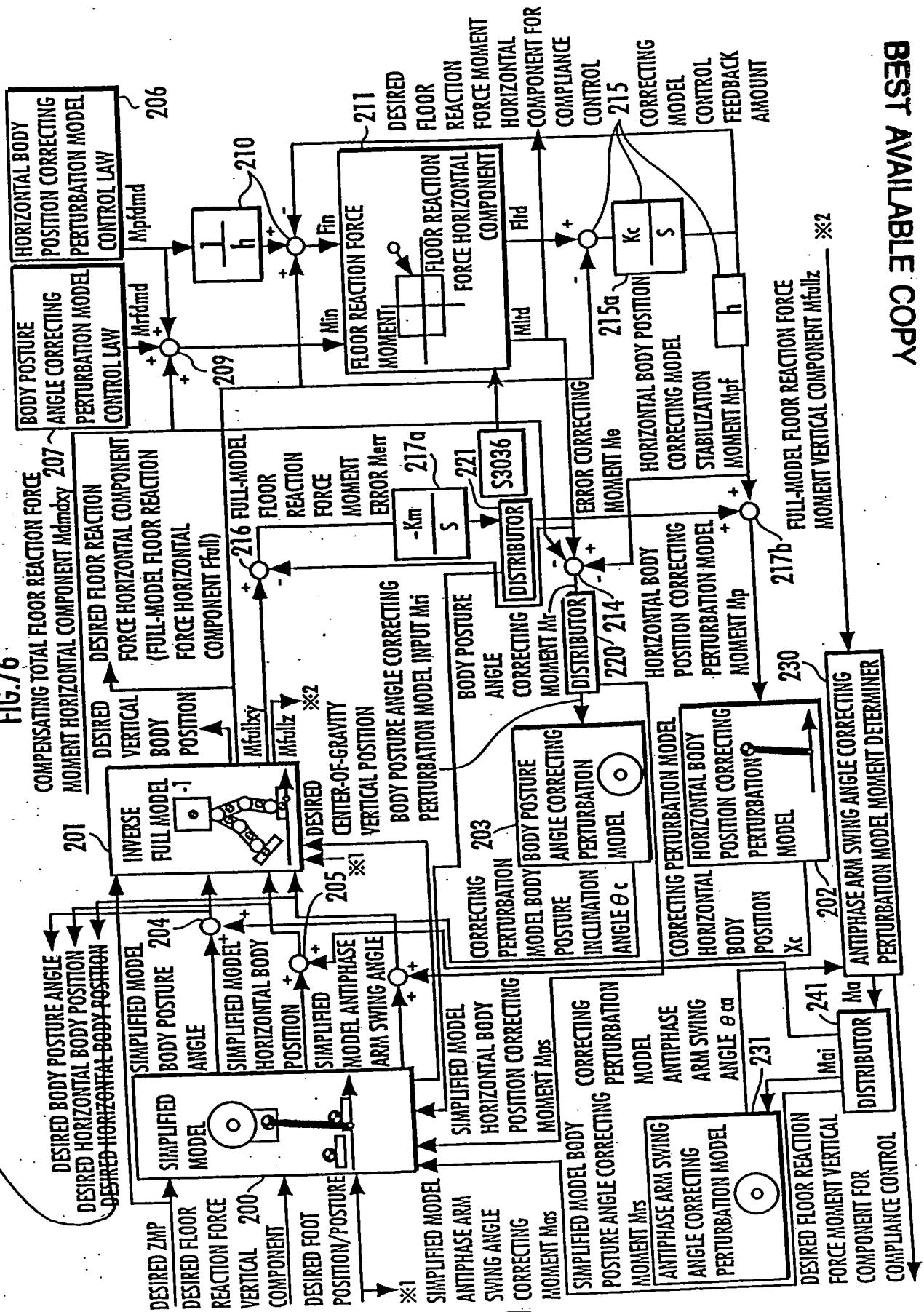
FIG.62

ENTRY

- DETERMINE DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS,
WHICH IS THE DIFFERENCE BETWEEN HORIZONTAL BODY POSITION OF CORRECTED GAIT AND HORIZONTAL BODY POSITION OF ORIGINAL GAIT. S2200
- DETERMINE DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS,
WHICH IS THE DIFFERENCE BETWEEN BODY POSTURE INCLINATION ANGLE OF CORRECTED GAIT AND BODY POSTURE INCLINATION ANGLE OF ORIGINAL GAIT. S2202
- DETERMINE DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS,
WHICH IS THE DIFFERENCE BETWEEN ANTIPHASE ARM SWING ANGLE OF CORRECTED GAIT AND ANTIPHASE ARM SWING ANGLE OF ORIGINAL GAIT. S2204
- DETERMINE REQUIRED VALUE OF MODEL HORIZONTAL BODY POSITION STABILIZATION FLOOR REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF DIFFERENCE IN HORIZONTAL BODY POSITION BETWEEN MODELS. S2206
- DETERMINE REQUIRED VALUE OF MODEL BODY POSTURE INCLINATION ANGLE STABILIZATION FLOOR REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF DIFFERENCE IN BODY POSTURE INCLINATION ANGLE BETWEEN MODELS. S2208
- DETERMINE REQUIRED VALUE OF MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION FLOOR REACTION FORCE MOMENT NECESSARY TO CONVERGE DIFFERENCE TO ZERO ON THE BASIS OF DIFFERENCE IN ANTIPHASE ARM SWING ANGLE BETWEEN MODELS. S2210
- DETERMINE MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT, MODEL BODY POSTURE ANGLE STABILIZATION MOMENT, MODEL ANTIPHASE ARM SWING ANGLE STABILIZATION MOMENT, HORIZONTAL BODY ACCELERATION, BODY POSTURE ANGULAR VELOCITY, AND ANTIPHASE ARM SWING ANGULAR ACCELERATION SUCH THAT THEY SATISFY RESTORING CONDITIONS. S2212
- MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT
 $=$ MODEL HORIZONTAL BODY POSITION STABILIZATION MOMENT
 $+$ MODEL BODY POSTURE ANGLE STABILIZATION MOMENT S2214
- DESIRED FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT FOR COMPLIANCE CONTROL
 $=$ COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT M_{dmdxy}
 $+$ MODEL MANIPULATION FLOOR REACTION FORCE MOMENT HORIZONTAL COMPONENT S2216
- DESIRED FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT FOR COMPLIANCE CONTROL
 $=$ COMPENSATING TOTAL FLOOR REACTION FORCE MOMENT ~~HORIZONTAL~~ COMPONENT M_{dmdz}
 $+$ FLOOR REACTION FORCE MOMENT VERTICAL COMPONENT BALANCING WITH CORRECTED GAIT S2218

RETURN

VERTICAL



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FIG. 8D

